

ENGINEERING CHECKS LHA 1 CLASS (Rev 8)

AUXILIARIES (AX) PRE-UNDERWAY PHASE

[LHA 1 CLASS MASTER CHECKLIST REV 3]

5811	ANCHOR WINDLASS		
Component/Sub-Component		Proposed Procedure	
Inspect Tech Manual Support		NAVSEA/OEM TECH MANUAL	
Inspect PMS Support		A-005/366	
		A-005/418	
		5811/802	
Inspect posted operating/safet	y instructions		
and lubrication data		NAVSEA/OEM TECH MANUAL	
Test Operate Anchor Windlas	s with No-Load	A-005/418 U-4	
		5811/802 R-3	
Inspect Fluid Samples		A-005/366 A-7	
		NSTM 262	
Inspect for proper HPU fluid	evels	5811/802 R-2	
		NAVSEA/OEM TECH MANUAL	
Inspect anchor windlass lubric	cation IAW PMS	A-005/366 S-2R	
requirements		A-005/366 Q-1R	
		5811/802 R-2	
Inspect handbrake is adjusted			
requirements (recommend within 30 days of		5811/802 R-2	
MI)		A-005/366 A-6	
Inspect magnetic brake is adju			
requirements (recommend wit	hin 30 days of	5811/802 R-2	
MI)		A-005/366 A-1	
Inspect brake linkage assemble	У	5811/802 R-2	
		A-005/418 U-4	
Test wildcat/windlass solenoid	l switch	n/a	
Inspect Gauge Calibration		5811/802 R-2	
		CRL	
Inspect relief valve data is pro			
data is not posted, then ship m	ust conduct		
relief valve test)		NAVSEA/OEM TECH MANUAL	
Inspect all flex hoses are properly tested and		NAVSHIPYD PUGET SOUND 261925Z APR99	
	labeled		
Inspect flange shields		NSTM 505	
Inspect for adequate nitrogen	charge for		
windlass		n/a	

Inspect speed limiter	n/a
Inspect for adequate LP air pressure for chain	
compressor	n/a
Inspect filter differential indications	NAVSEA/OEM TECH MANUAL
Inspect HPU mechanical seal leakage	NSTM 503
Inspect Servo/Replenishment pressures during	5811/802 R-3
wildcat operation	NAVSEA/OEM TECH MANUAL
Inspect Chain Compressor operation	n/a
Inspect reduction gear lubrication	5811/802 R-3
(gauges/sight flows/dipsticks)	NAVSEA/OEM TECH MANUAL
Test crossover valve operation	5811/802 R-3
·	NAVSEA/OEM TECH MANUAL

5600 / 5611	STEERING (Inport System Verification)	
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EOSS Support		NAVSEA/OEM TECH
		MANUAL and EOSS
Inspect PMS Support		5611/815
		A-001/302
Inspect operating/safety instruc		NAVSEA/OEM TECH
system/electrical wiring diagram	ms are posted	MANUAL
Inspect fluid samples		A-001/302 S-4R
		NSTM 262
Inspect static mechanical check	T.S	5611/815 R-2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect relief valve test tags are		
not, test compensator relief val		n/a
Inspect relief valve test tags are		NAVSEA/OEM TECH
not, test main relief valve setting		MANUAL
Inspect flange shields are prope		NSTM 505
Inspect steering gear lubrication	n	A-001/302 R-8
Inspect trick wheel assembly		A-001/302 R-5
		5611/815 R-2
Test N2 accumulator charge		A-001/302 R-3
		5611/815 R-2
Inspect proper fluid levels		NAVSEA/OEM TECH
		MANUAL
Inspect filter indicators		5611/815 R-2
Inspect rudder ram finish		5611/815 R-2
Inspect rudder ram cylinders for	r leaks	5611/815 R-2
Inspect gauge calibration		CRL
Inspect rudder stock grounding	straps and post	A-001/302 R-10
lubrication		NSTM 562
Inspect servo/replenishment pressures are correct		5611/815 R-2
Test the rudder follow up error (1 deg increments at		
0 to 5 deg; 5 deg increments at 5 to 25 deg)		5611/815 R-2
Test the trick wheel stops		5611/815 R-2
Inspect the crush block clearances		5611/815 R-2
Test (inport) rudder swing checks		5611/815 R-2
Test (inport) blocking valve		NSTM 562
Test auxiliary emergency steeri		n/a
Test manual emergency steerin	g system	5611/815 R-2
Test steering casualty alarm	Test steering casualty alarm	

Test pump remote operation and transfer of controls	5611/815 R-2
to pilot house	EOSS
Test for static rudder split (pilot house in control)	n/a
Test for indicator error (pilot house in control)	5611/815 R-2 NSTM 562

5210	FIRE PUMPS	(ELECTRIC and STEAM)
Component/Sub-Compo	onent	Proposed Procedure
ALL FIRE PUMPS		
Inspect Tech Manual / EOSS support		EOSS
Inspect Teen Manual / Loos suppor		NAVSEA/OEM TECH
		MANUAL
Inspect PMS support		5210/806
Inspect gauge calibration		CRL
Inspect transducer calibration		CRL
Inspect pump, motor (casing, packing	ng/mechanical	5210/806 R-3/4/14/15/30/33/34
seal, coupling, etc.)	ig, inconumeur	NSTM 503
Inspect coupling guard		5210/806 R-3/4/33/34
Inspect coupling guard		OPNAVINST 5100.19
Inspect foundation		5210/806 R-3/4/33/34
		NSTM 503
Inspect ferrous fasteners		5210/806 R-3/4/33/34
1		NSTM 075, 505
Inspect resilient mounts		5210/806 R-3/4/14/15/30/33/34
		NSTM 503
		NAVSEA S9073-A2-HBK-010
Inspect grounding straps		5210/806 R-3/4/33/34
		NSTM 300
Inspect piping & supports		5210/806 R-14/15/30
		NSTM 505
Inspect all flex hoses are properly te	sted/labeled	5000/009 A-1/A-2
		5000/014 A-1/A-2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect piping lagging		5210/806 R-14/15/30
		NSTM 505, 635
Inspect the suction strainer		EOSS
		NAVSEA/OEM TECH
		MANUAL
Test remote motor/hydraulic operate	ed	EOSS
suction/discharge valves		5210/806 R-14/15/30
Inspect local valves and remote control station		5000/005 S-4, A-3 5000/006 2M-1, 36M-4
	(labeling, position indicators, etc).	
Inspect MHVC station oil level and relief valve test		
periodicity		EOSS
	Test remote start/stop functions	
Test local start/stop functions		EOSS

T	FOGG
Inspect pump operation (design discharge pressure,	EOSS
gages, unusual noise, bearing temps, etc).	NAVSEA/OEM TECH
	MANUAL
Inspect for proper seating of check valve and no	NAVSEA/OEM TECH
reverse rotation upon securing pump	MANUAL
STEAM DRIVEN FIRE PUMPS	
Inspect lube oil filter indications and oil level	N/A
Test the over speed trip	N/A
Test the speed limiting governor	N/A
Test the turbine auxiliary lube oil pump low-pressure	N/A
automatic start switch operation	
Test combination exhaust and relief valve	N/A

5512 / 5513 / 5515 LOW and MEDIU	M PRESSURE AIR SYSTEM
Component/Sub-Component	Proposed Procedure
Inspect Tech Manual and EOSS Support	
Inspect PMS Support	
Inspect Gauge Calibration	
Inspect operating/safety instructions are posted	
Inspect compressor oil level and oil samples	
Test compressor pressures and temperatures	
Test compressor capacity control system	
Inspect compressor belt condition	
Test compressor auto control and safety switches	
a. Operational control switches (115/120/125)	
b. Low oil pressure	
c. High discharge pressure	
d. High air and water temp	
Inspect all relief valve testing is within periodicity	
Inspect location of intake/vent supply	
Inspect receiver flask certification	
Test priority valve operation	
Inspect sea water cooling system	
Inspect 50/50 mixture of ethylene glycol	
Test type I and type II dehydrator operation	
a. Gauge calibration	
b. Tower operation	
c. Purge air pressure	
d. Automatic drain operation	
e. Dew point	
f. Inspect PMS and Tech Manual support	

5511 / 5515	HIGH PRESSURE AIR SYSTEM	
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual and EO	SS Support	
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instr	uctions are posted	
Inspect compressor oil level	and oil samples	
Test compressor auto control	and safety switches	
a. Start / Stop switch		
b. Low oil pressure swite	ch	
 c. Jacket water temp swi 	tch	
d. Compressor temp/pres	ssure monitor operation	
Inspect compressor pressures	and temperatures	
Inspect compressor drive bel	t condition	
Inspect condensate monitoring		
Inspect all flex hoses are pro-		
Inspect all relief valve testing		
Inspect HP air flask certificat	ion	
Inspect sea water cooling sys	tem	
Inspect air intake/ventilation	supply location	
Inspect all HP/LP air reducing stations		
Inspect fresh water pump belts		
Inspect capacity		
Inspect oil wipers		
Inspect pressure regulator valve		
Inspect 50/50 mixture of ethylene glycol		
Inspect seals for oil leaks		

A-002/105-11	EMERGENCY/SHIP'S SERVICE DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	
Note: Overspeed trip is not required if	Note: Dead Bus Pick-up & Reverse	
DEI has conducted within the last	Power Relay checks are covered under	
ninety days and documentation of	EL.	
satisfactory performance is available.		
Inspect Engine Sump Level	EOSS	
Inspect Turbocharger Sump Level	EOSS	
Inspect Start Air Lubricator Oil Level	EOSS	
Inspect Governor Oil Level	EOSS	
Inspect Lube Oil Sample	A-002/015 R-60D	
Inspect J/W Expansion Tank Level	EOSS	
Inspect "Do not open access" and	NAVSEA/OEM TECHMAN	
Expansion Tank warning "Poison"		
are posted		
Inspect/test fuel valve trip	EOSS	
Inspect Relief Valves	A-002/015 R-16	
Inspect Flange Shielding	NSTM 505	
Inspect For Exhaust Leaks	EOSS	
Inspect Filters, Strainers	A-002/015 S-3R,S-7,A-1R	
Inspect Governor and Fuel Linkage for	A-002/015 A-3R	
Binding		
Inspect J/W Standby Pump	EOSS	
Test Blow In Damper	EOSS	
Test pre-lube system operation	EOSS	
Test Jacket Water High Temp Alarm	A-002/015 A-10	
Test Lube Oil Filter High DP Alarm	NAVSEA/OEM TECH MANUAL	
Test low lube oil pressure alarm	A-002/015 S-2R	
Test Remote Shut Down	A-002/015 S-2R	
Test Local Shut Down	EOSS	
Test Barring Device Interlock	EOSS	
Test Engine Blow Down	EOSS	
Test Local Pneumatic start	EOSS	
Test Overspeed Trip	A-002/015 S-2R	
Test 80% load for 15 minutes	A-002/015 Q-4	
Inspect for fuel/lube oil leaks	EOSS	
Inspect pyrometer operation	A-002/015 A-9R	
Inspect manometer	A-002/015 A-9R	
Inspect sea water cooling pump	EOSS	

Test high water/generator bearing temp	
alarm	

6651	BI	FIMA WORKSHOPS
Component/Sub-Componen	t	Proposed Procedure
Inspect BFIMA matrix and determine th capabilities for the ship	e required	BFIMA Standards
Inspect the following items as they perta applicable workshops:	in to the	BFIMA Standards
- PMS and Tech Manual Support of all i equipment		BFIMA Standards
- Test operational condition of all install equipment (E-stops, cutting fluid etc).	ed	BFIMA Standards
- Test all installed equipment in their cap	pacity	BFIMA Standards
- Inspect the monorail layout and ensure the function of the workshop	it supports	BFIMA Standards
- Inspect all gauge calibration (calipers)		CRL
- Inspect correct software/hardware pres	ent	BFIMA Standards
- Inspect correct/adequate cutting fluids and oils are present		BFIMA Standards
- Shops		
- Machine Shop		BFIMA Standards
- Welding Shop		BFIMA Standards
- Filter Cleaning Shop		BFIMA Standards
- Engraving Shop		BFIMA Standards
- Sheet Metal Shop		BFIMA Standards
- Motor Rewind Shop		BFIMA Standards
- Carpenter Shop		BFIMA Standards
- Valve Shop		BFIMA Standards
- Internal Combustion Engine Shop		BFIMA Standards
- Pipe Shop		BFIMA Standards
- Hydraulic Shop		BFIMA Standards
- Shipfitting Shop		BFIMA Standards
- AC&R Shop		BFIMA Standards
- Pump Shop		BFIMA Standards

5140 AIR COND		ITIONING PLANTS
Component/Sub-Component		Proposed Procedure
CENTRIFUGAL UNITS (R-114, R-236fa) RECIPROCATING UNITS (R-12, R-134a)		
(check items below as appli		
Note: Some units are not equ		Note: Applicable MRCs are
valves for pressure testing. T		used as guides to demonstrate a
amount of refrigerant would		particular component's
not advisable. For these insta		performance. Some MRCs may
operation will be accomplish	ed by operational means	not be accomplished in their
(e.g., securing/aligning s/w, t		entirety.
pump on/off, turning the c/w	pump on/off).	-
Inspect Tech Manual / EOSS	support	NSTM 516
		NAVSEA/OEM Tech Manual
Inspect PMS support		5140/011 (R-114)
		5140/013 (R-236fa)
		5140/804 (R-114 & R-236fa)
Inspect operating/safety instr	uctions are posted	GSO 516, 602
		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Inspect refrigerant logs		5140/011 M-4R
		5140/013 M-4R
Inspect material condition		5140/804 R-2
Inspect compressor oil level,	oil sample	5140/010 R-6
		5140/012 R-6
		EOSS
Inspect moisture indicators		5140/011 W-1R
		5140/X11 2W-1
		5140/013 W-1R
Inspect hermetic motor sight	glass	5140/011 M-2
T		5140/013 M-2
Inspect gauge calibration	C1 ' 1	CRL
Verify calibration & operation	n of high pressure	5140/013 A-8
switch (236fa)	n of muscoums	5140/012 24N4 4
Verify calibration & operation transducers (236fa)	n or pressure	5140/013 24M-4
Inspect oil accumulator press	ura (236fa)	5140/013 M-1
inspect on accumulator press	uic (2301a)	J140/013 WI-1

Test safety/control pressure switch device settings and operation High pressure safety/control switch Low pressure safety/control switch Water pressure failure safety switch Oil failure/low oil pressure/differential oil pressure switch	5140/011 36M-1, R-4 5140/X11 18M-3
Oil temperature safety switch Compressor low pressure control switch Chill water pressure/differential flow switch Low refrigerant temp switch Chill water operating/low temp switch	
Thermostatic Expansion Valve (TXV) Inspect/test for system leaks (refrigerant/oil/water)	5140/804 R-3 5140/011 S-1R
	5140/X11 S-1R 5140/X11 S-1R 5140/013 S-1R NSTM 516 Sec. 3
Inspect for compressor shaft seal leaks	5140/804 R-3 5140/011 Q-3 5140/013 Q-3 NSTM 516 Sec. 3
Inspect coupling guard	OPNAVINST 5100.19 NAVSEA/OEM Tech Manual
Operate/test unit, verify operating parameters, Test capacity control system operation (pressure, temperature) Test current limiter, electronic control module (as applicable) Verify operation of Pre-Rotational Vanes (PRV) & Hot Gas By-Pass Valve (HGBP) (centrifugal units) Inspect capacity control external pneumatic vent connection for proper venting (applies only to Carrier compressors equipped with hydraulic cap control) Test Water Regulating Valve (WRV) Test compressor suction and discharge valves	5140/804 R-4/5/12 5140/011 A-8R/9R 5140/013 A-8/9 EOSS NAVSEA/OEM Tech Manual
(reciprocating units)	
Inspect/test chill water pump Bearing lubrication Operating parameters Mechanical seal leakage Pump discharge check valve seat tightness Coupling guard	NSTM 503, GSO 503 EOSS NAVSEA/OEM Tech Manual OPNAVINSTR 5100.19

Lucy and Chill Water Emparation Touls	5140/011 24M 2
Inspect Chill Water Expansion Tank	5140/011 24M-2
Operating level	5140/013 24M-2
Filling air gap	NSTM 516, 533
Hose connection warning sign	GSO 602
Relief valves and vacuum breakers	EOSS
Inspect sea water system & controls	5140/804 R-3
Operate emergency cooling water reducing station	5140/011 R-1/13, M-3R, Q-5,
Reducing valve and station pilot valve sensing	S-3R, A-10R
line strainer	5140/X11 M-1R, R-13
Seawater regulating valve	5140/013 R-13, M-3R, Q-5, S-
Condenser (O&I as required)	3R, A-10R
Zinc anodes (O&I as required)	5000/015 (A or R checks as
Headers, tube sheet, divider plate (O&I as	applicable to installation)
required)	NSTM 516
Strainers (Hellan, Y, Duplex) (O&I as required)	EOSS
	NAVSEA/OEM Tech Manual
Inspect/test sea water pump (as applicable)	NSTM 503, GSO 503
Operating parameters	EOSS
Bearing lubrication	NAVSEA/OEM Tech Manual
Mechanical seal leakage	OPNAVINSTR 5100.19
Pump discharge check valve seat tightness	
Coupling guard	
Inspect resilient mounts	5140/011 A-4R
1	5140/013 A-4R
	NAVSEA S9073-A2-HBK-011
Inspect grounding straps	NSTM 300
Inspect flexible hoses	5000/009 A-1/2
Inspect nextore nodes	5000/014 A-1/2
Inspect vent exhaust ducting terminal (flow, location,	NSTM 516 Sec 4
indicators and alarms)	1151W 510 Sec 4
Inspect cylinder stowage racks	NSTM 516
inspect cylinder stowage racks	GSO 516, 671
Inspect replacement refrigerant charge	GSO 516, 071
Inspect lube oil filter/strainer (O&I as required)	5140/011 R-6
	5140/013 R-6
Inspect dehydrator (O&I as required)	5140/011 R-3
	5140/013 R-3
Inspect/test refrigerant Purge and Pump Out (PPO)	A/C& R Advisory #32
unit/Refrigerant Recovery Unit (RRO)	5140/011 36M-1, R-5
Moisture indicator	5140/013 A-8, R-5
Oil level	EOSS
Belt drive & belt guard (tension & condition)	NAVSEA/OEM Tech Manual
Compressor cycling (high pressure) switch	
Material condition (O& I as required)	
Dehydrator cartridge (O&I as required)	

Verify halocarbon monitor installation is compatible with refrigerant type. Test halocarbon monitor	NSTM 516 OPNAVINST 5100.19 GSO 516
Inspect for non-condensable gases (as required by when compressor discharge pressure cannot be maintained with WRV)	NSTM 516

5161	REFRIGERATION PLANTS	
Components/Sub-Con	Components/Sub-Components	
Inspect Tech Manual / EOSS sup	port	NSTM 516
		NAVSEA/OEM Tech Manual
Inspect PMS support		5161/001 (R-12)
		5161/005 (R-134a)
		5161/800 (R-12 & R-134a)
Inspect operating/safety instruction	ons are posted	GSO 516, 602
		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Inspect refrigerant logs		5161/001 M-2R
		5161/005 M-2R
Inspect compressor oil level, oil sample		5161/001 R-12D
	_	5161/005 R-12D
		EOP
		NAVSEA/OEM Tech Manual
Inspect moisture indicators		5161/001 W-1R
		5161/005 W-1R
Inspect capacity control external	oneumatic vent	NSTM 516
connection for proper venting (ap	plies only to	NAVSEA/OEM Tech Manual
Carrier compressors equipped with hydraulic cap		
control)		
Inspect prerotational vane operati	on and controls	NSTM 516
		NAVSEA/OEM Tech Manual
Inspect gauge calibration		CRL

Test safety/control pressure switch device settings	5161/800 R-4
and operation	5161/001 18M-2, 18M-4, U-3/4
High pressure safety/control switch	5161/005 18M-2, 18M-4, U-
Low pressure safety/control switch	3/4
Water pressure failure safety switch	NSTM 516
Oil failure/low oil pressure/differential oil	NAVSEA/OEM Tech Manual
pressure switch	
Compressor low pressure control switch	
Chill water pressure/differential flow switch	
Low refrigerant temp switch	
Chill water operating/low temp switch	
Thermostatic Expansion Valve (TXV)	
Inspect/test for system leaks (refrigerant/oil/water)	5161/800 R-5
	5161/001 S-1R
	5161/005 S-1R
	NSTM 516 Sec. 3
Inspect for compressor shaft seal leaks	NSTM 516 Sec. 3
Inspect coupling guard	OPNAVINST 5100.19
	NAVSEA/OEM Tech Manual
Inspect drive belts and belt guards	5161/800 R-5
	5161/001 18M-1
	5161/005 18M-1
Operate/test unit, verify operating parameters, and	5161/800 R-6
verify capacity control system operation	5161/001 18M-2
	5161/005 18M-2
	EOP
	NAVSEA/OEM Tech Manual
Test compressor suction and discharge valves	5161/800 R-4
	5161/001 U-1
	5161/005 U-1
Test/verify evaporator pressure regulator (EPR) and	5161/800 R-6
water regulating valve (WRV) setting and operation	
Inspect for non-condensable gases (as required by	5161/001 Q-5R
when compressor discharge pressure cannot be	5161/005 Q-5R
maintained with WRV)	
Test/verify refrigeration room door safety device,	5161/001 S-4R
inspect door seals	5161/005 S-4R
Inspect gravity type cooling coils for excessive frost	NSTM 516 Sec 4
build-up	
Inspect drip trough heating coils/cables and indicator lights	NSTM 516 Sec 4
Inspect refrigerator room recirculating fans and	GSO 516
indicator light, verify damper operation	NSTM 516 Sec 4

Inspect sea water system	5161/800 R-3
Condenser	5161/001 S-3R, Q-4R, R-13D
Zinc anodes (O&I as required)	5161/005 S-3R, Q-4R, R-13D
Headers, tube sheet, divider plate (O&I as	5000/015 (A or R checks as
required)	applicable to installation)
Operate emergency cooling water reducing station	NSTM 516
Stainers (Hellan, Y, Duplex) (O&I as required)	EOSS
Reducing valve and station pilot valve sensing	NAVSEA/OEM Tech Manual
line strainer	
Inspect resilient mounts	NAVSEA S9073-A2-HBK-010
Inspect grounding straps	NSTM 300
Inspect flexible hoses	5161/001 A-7/8/10/11
	5161/005 A-7/8/10/11
	5000/009 A-1/2
	5000/014 A-1/2
Inspect vent exhaust ducting terminal (flow, location,	NSTM 516 Sec 4
indicators and alarms)	
Inspect cylinder stowage racks	NSTM 516
	GSO 516, 671
Inspect replacement refrigerant charge	GSO 516
Inspect liquid line strainers and filters (O&I as	5161/001 R-8
required)	5161/005 R-2, R-8
Inspect dehydrator (O&I as required)	5161/001 A-2R
	5161/005 A-2R
Inspect refrigerant recovery unit and vacuum pump	NAVSEA/OEM Tech Manual
Verify halocarbon monitor installation is compatible	NSTM 516
with refrigerant type	OPNAVINST 5100.19
Test halocarbon monitor	GSO 516

8543	PAG	CKAGE CONVEYOR
Component/Sub-Compone	nt	Proposed Procedure
Inspect Tech Manual and EOSS Suppo	rt	
Inspect PMS Support		
Inspect posted operating/safety instruct	ions (two man	
rule/ do not ride) at each station		
Inspect posted lubrication chart at top s	tation	
Test for audible warning when starting		
Inspect that all station doors are locked		
Inspect that all station controllers are lo	ocked	
Test door interlock system		
Inspect load/unloader at each station		
Test door cannot close when loader/unl	loader is in	
horizontal or 30 deg inclined position		
Test loader/unloader down interlock sw	itch at each	
station below upper most level		
Test jam limit switch at each station		
Inspect safety shields are properly insta		
Test up-over travel switch/device opera		
Test clean out door interlock switch if a	**	
Test down overtravel device and switch	1	
Test indexing feature		
Test E-stop and run/stop buttons at all s	stations	
Inspect proper florescent lighting at each		
Inspect trunk shielding and mounting h	ardware	
Inspect trunk guide rails		
Inspect conveyor trunk for preservation	/cleanliness	
Inspect all carrier trays are installed and	d tight	
Test all station growlers and phone circ	cuits are	
functional and headsets are present		
Inspect conveyor has been load tested within the last		
five years to include weight test data		
Inspect speed reducer is filled to proper level with oil		
Inspect drive, driven and carrier chains are properly		
tensioned		
Test bite panel for correct components and proper		
*	operation	
Inspect motor controller for loose leads, posted		
placards, grounds and correct fuses		
Inspect drive machinery for missing/loose		
components		

8543	I	DUMBWAITER
Component/Sub-Compone	ent	Proposed Procedure
Inspect Tech Manual and EOSS Suppo	ort	
Inspect PMS Support		
Inspect posted operating/safety instruc	tions at each	
station		
Inspect posted lubrication chart at top	station	
Inspect trunk bi-parting doors		
Inspect machinery access cover bolts &	k nuts	
Inspect machinery oil level		
Inspect hoist machinery mounting hard	lware	
Inspect hoist drum		
Inspect hoist wire rope and end fittings		
Test slack rope device and limit switch	l	
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch		
Inspect car broken rope device		
Inspect car bi-parting door assembly		
Inspect car for missing components		
Test lower level trunk bi-parting doors and limit switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phone system when		
installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted		
placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and		
cleanliness		
Inspect guide rails		
Test each control station E-stop button		

5331	POTAR	BLE WATER PUMPS
Component/Sub-Component		Proposed Procedure
Inspect Tech Manual / EOSS Supp	port	EOSS
		NAVSEA/OEM Tech Manual
Inspect PMS Support		5331/800
Inspect Gauge Calibration		CRL
Inspect Transducer Calibration		CRL
Inspect Coupling Guard		OPNAVINST 5100.19
		NAVSEA/OEM Tech Manual
Test local & remote start/stop fund	ctions of potable	EOSS
water pump and priming pump		5331/800 R-2/3
Inspect potable water pump and pr	riming pump	EOSS
operation/design discharge pressur	re, unusual noise,	5331/800 R-2/3
bearing temps, etc.		NSTM 503
		NAVSEA/OEM Tech Manual
Inspect reduced pressure, vacuum breaker and		5331/800 R-4/5/6
double check valve backflow prev	enter	
Inspect packing/mechanical seal le	eakage	NSTM 503
Inspect for dissimilar metals (faste	eners & piping)	NSTM 075
Inspect foundation and resilient m	ounts	5331/800 R-2
		NAVSEA S9073-A2-HBK-010
		NSTM 300, 508
Inspect all flex hoses are properly	tested/labeled	5000/009 A-1/2
		5000/014 A-1/2
		NAVSHIPYD PUGET SOUND
		261925Z APR99
Inspect grounding straps		NSTM 300
Test potable water pump pressure	switch	N/A

5331	WATER HEATERS	
Component/Sub-	-Component	Proposed Procedure
Inspect Tech Manual and EC	SS Support	NAVSEA/OEM TECH MANUAL
Inspect PMS Support		A-181/001 A-025/082
Inspect gauge calibration		CRL
Inspect relief valve test data		A-181/001 36M-1
Inspect relief valve drain pip	ing	A-181/001 A-3 NAVSEA/OEM TECH MANUAL
Inspect cold water inlet pipe	for check valve	NAVSEA/OEM TECH MANUAL
Test safety thermostatic swite	ch	A-181/001 36M-2R
Test over-temp safety device		A-181/001 36M-2R
Inspect lagging condition		NSTM 505
Inspect for steam / water leak	S	NSTM 505
Inspect Temp Reg Valve for	locking device	NAVSEA/OEM TECH MANUAL
Inspect heater foundation		A-181/001 A-2
Test water temp at basin/spig	ot	A-181/001 A-2

6641	F	AN ROOMS
Component/Sub-Cor	nponent	Proposed Procedure
Inspect deck condition		GSO 509, 512, 528, 670
- No standing water		GSO 509, 512, 528, 670
- Deck rusted / exfoliated		GSO 509, 512, 528, 670
- Deck drain not installed		GSO 509, 512, 528, 670
- Deck drain missing, not secured or inoperative		GSO 509, 512, 528, 670
Inspect deck/bulkheads have no	painted over rust	GSO 509, 512, 528, 670
Inspect lighting is operative and	covers installed	GSO 509, 512, 528, 670
Inspect adequate lighting present	in space	GSO 509, 512, 528, 670
Inspect vent duct condition		GSO 509, 512, 528, 670
- Access covers present		GSO 509, 512, 528, 670
- Access cover fasteners not ruste	ed/missing	GSO 509, 512, 528, 670
- Duct interior is clean		GSO 509, 512, 528, 670
Inspect correct vent/piping system	n labeling	GSO 509, 512, 528, 670
Inspect fan motor installed correc	etly (flow)	GSO 509, 512, 528, 670
Inspect filters are clean and can be	e easily removed	GSO 509, 512, 528, 670
Inspect filter DP gauge is operati	ve	GSO 509, 512, 528, 670
Inspect vent heating element is operative and not deteriorated		GSO 509, 512, 528, 670
Inspect cooling coils are clean		GSO 509, 512, 528, 670
Inspect thermostatic controls are calibrated, connected and operational		GSO 509, 512, 528, 670
Inspect the cooling coil drain is p drain and is not clogged	Inspect the cooling coil drain is piped to the deck	
Inspect the proper color coding of piping		GSO 509, 512, 528, 670
Inspect that all hand wheels are present		GSO 509, 512, 528, 670
Inspect for damaged / missing lagging		GSO 509, 512, 528, 670
Test the C/W or steam solenoids are operational		GSO 509, 512, 528, 670
Inspect for chilled water / steam leaks		GSO 509, 512, 528, 670
Inspect for bull's eye and CCOL in space		GSO 509, 512, 528, 670
Inspect for any unauthorized stowed material		GSO 509, 512, 528, 670
Inspect for any unauthorized flan	Inspect for any unauthorized flammables	
Inspect the filter cleaning shop		GSO 509, 512, 528, 670

5681 BOW THRUSTER		
Component/Sub-Component	Proposed Procedure	
Inspect Tech Manual Support	NAVSEA/OEM TECH MANUAL	
Inspect PMS Support	A-171/004	
Inspect gauge calibration	CRL	
Inspect posted operating/safety instructions and lubrication data	NAVSEA/OEM TECH MANUAL	
Inspect fluid samples	A-171/004 M-1 NSTM 262	
Inspect for proper hydraulic oil levels (hydraulic power system, speed decreaser gearcase, gravity head tank)	EOSS A-171/004 R-6	
Inspect hydraulic oil filters	5681/004 R-1 NAVSEA/OEM TECH MANUAL	
Inspect lubrication of components (cable sheave, dust boot, flex coupling, drive motor upper & lower thrust bearing, jet pump thrust bearings, flex coupling, rotary pump motor bearings, radial load bearings)	A-171/004 S-2, A-3	
Inspect right angle drive unit	A-171/004 60M-2	
Inspect drive shaft clutch assembly	A-171/004 24M-2	
Inspect flex hoses	5000/009 A-1/A-2 5000/014 A-1/A-2 NAVSHIPYD PUGET SOUND 261925Z APR99	
Inspect bow thruster system	A-171/004 R-5	
Test hydraulic system pressure switch	N/A	
Test hydraulic system relief valve	5681/004 U-1	
Inspect bow thruster shaft sealing systems	NAVSEA/OEM TECH MANUAL	
Test bow thruster interlocks	N/A	
Test bow thruster operation	5681/004 R-4W	
Review latest underwater hull inspection report for external conditions (bow thruster tunnel zinc anodes, marine fouling, etc.)	U/W HULL INSPECTION REPORT DOCKING REPORT	

5842/A-262 STERN GATE		RN GATE
Component	/Sub-Component	Proposed Procedure
Inspect Tech Manual support		NSTM 584, 556 NAVSEA/OEM TECH MANUAL
Inspect PMS support		A-262/036
Inspect operating/safety	instructions are posted	NSTM 584, 556 NAVSEA/OEM TECH MANUAL OPNAVINST 5100.19
Inspect hydraulic oil fill lube chart installed	connections are labeled and	NAVSEA/OEM TECH MANUAL
Inspect oil level, oil sam normal operating temps/	pressures	A-262/036 R-3
Inspect Local Control Pa communications, operati	ion)	A-262/036 M-1
Inspect gauge calibration	n	CRL
Inspect filter indicators		A-262/036 R-1
Inspect all relief valve to and conduct in-place ver setting.	esting is within periodicity rification of relief valve	A-262/036 R-8
Inspect all flex hoses are	e properly tested/labeled	5000/009 A-1/2 5000/014 A-1/2 NAVSHIPYD PUGET SOUND 261925Z APR99
Test safety switches/interlocks as applicable to installation (up limit; up over travel limit; closure down; sea force; dead-man switch; E-stop; slack rope)		A-262/036 S-7R, S-8
Inspect, operate & test h	• • •	
- foundation condition		NSTM 503
	sting is within periodicity rification of relief setting	A-262/036 R-8
- leaks, mech seal		NSTM 503, 556
- filter indicators		A-262/036 R-1
- test HPU low oil level alarm & light		N/A
Operate gates (upper & lower)		
- Cycle gate open/cl	- Cycle gate open/closed from all stations	
- Record time requir	red to open/close gate	GSO 584e no PMS rqmt located
- Test stern gage closure emergencyoperator (e.g., pnuematic, hand pump, etc.)		NAVSEA/OEM TECH MANUAL or Local Procedure

Inspect rail bolts	N/A
Inspect gate locking device (e.g., dogs)	A-262/036 M-1
Inspect ram and track condition (e.g. cylinder side	A-262/036 18M-2
plates)	
Drift Test (e.g. per FTSCL tech, applies to certain	N/A
ram packing designs)	
Inspect gate seal for deterioration & leakage	NAVSEA/OEM TECH
	MANUAL
	WELL DECK MANUAL
Inspect gate connecting link welds, stern gate	N/A
structure	
Inspect and operate LCAC extension fendering	N/A
system	
Inspect emergency rigging. Cycle operate	A-262/036 18M-1, S-2
emergency winch. Conduct visual inspection of	
chain/ sheaves/ shackles - DO NOT RIG.	
Test: Conduct underway operational test during	PMS/ NAVSEA/OEM TECH
ballast/deballast demonstration	MANUAL/ LOCAL
	PROCEDURE

A-702/020-61	A-702/020-61 DEBALLAST COMPRESSORS	
Component/Sub-C	Component/Sub-Component	
Inspect Tech Manual and EOS	S Support	
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instruc	ctions are posted	
Inspect compressor oil level an	d oil samples	
Inspect all relief valve testing i	s within periodicity	
Inspect the seawater cooling sy	stem	
Inspect installed alarm panel	operation	
Test compressor safety switched	es	
a. low lube oil pressure cuto	out	
b. High air pressure cutout		
c. High temperature lube of		
d. High temperature lube of	il alarm	
e. Dirty air filter alarm		
f. Dirty air filter cutout		
Test operational remote/local s	•	
Test check valve in the discharge line		
Test unloader valve		
Inspect de-ballast air header valves		
Test header pressure can be maintained		
Test the discharge pressure		
Test: Conduct underway operational test during		
ballast/deballast demonstration		

5351		ER and COPPER SERVICE STEAM PIPING
Component/Sub-Component		Proposed Procedure
Inspect Gauge calibration		CRL
Inspect PMS Support		5000/013
Inspect warning placard posted – warning bleed		
pressure before disconnecting		SIB
Inspect piping/valve condition and operation		NSTM 505
Inspect protective cover		NSTM 505
Inspect relief valve for test data		5000/013 72M-2
Inspect overall area preservation		6300/001 S-1

Inspect ship has reviewed NAVSEA Wash DC R	NAVSEA	Wash DC
130557Z FEB 01 concerning copper piping	R130557ZFEB01	
Inspect the ship has established an inspection	NAVSEA	Wash DC
program IAW NAVSEA message	R130557ZFEB01	
Inspect - Conduct a walkthrough of all copper		
service steam piping to check for leaks IAW	NAVSEA	Wash DC
NAVSEA message	R130557	ZFEB01

AUXILIARIES (AX) UNDERWAY DEMO PHASE

[LHA 1 CLASS MASTER CHECKLIST REV 3]

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION	
Component/Sub-Con	nponent	Proposed Procedure
Test Operate Anchor Windlass	s with Load	A-005/418 U-4 5811/802 R-4
Test Mechanical Handbrake		A-005/418 U-4 5811/802 R-4
Inspect Servo/Replenishment and Main Relief Pressures during wildcat operation		A-005/418 U-4 5811/802 R-4
Inspect Anchor drops from the hawsepipe		A-005/418 U-4 5811/802 R-4
Test Magnetic brake		A-005/418 U-4 5811/802 R-4
Inspect motor amperage readings		5811/802 R-4 NAVSEA/OEM TECH MANUAL

5600 / 5611	STEERING	DEMONSTRATION
Component/Sub-C	omponent	Proposed Procedure
Inspect proper fluid levels		NAVSEA/OEM TECH
		MANUAL
Inspect correct Servo/Replenish	nment pressures	5611/815 R-2
Test - Demonstrate timed rudde	er swing checks/	A-001/302 R-6
blocking valve test Ahead (as per provided		NSTM 562
procedure)		INSURV NOTE
Test - Demonstrate timed rudder swing checks/		A-001/302 R-6
blocking valve test Astern (as per provided		NSTM 562
procedure)		INSURV NOTE
Inspect for dynamic rudder split from helm indicator		NSTM 562

5311		CTION DEMONSTRATION – SH TYPE EVAPS
Component/Sub-Co	mponent	Proposed Procedure
Note: Pre-U/W - AX to verify distillers are operational, calibration & safety relief valves are within periodicity. Detailed material inspections are normally conducted during u/w water production.		Note: Pre-U/W - EL will inspect salinity panel & dump valves. NAVSEA/OEM TECHMAN
Inspect PMS and Tech Manual s	иррогі	5311/014 5311/805
Inspect gauge calibration		CRL 5311/805 R-3
Test flow meter Inspect evaporator shell (sight glasses, diffuser cap and scale buildup) & feed heater relief valve		NAVSEA/OEM TECHMAN 5311/805 R-3
Test interlock device between potable water and feed water valves		NAVSEA/OEM TECHMAN
Inspect feed pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect distillate pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity)		5311/805 R-3
Inspect flexible hose condition and test tag		5000/009 A-1/A-2 5000/014 A-1/A-2
Inspect feedwater strainer (found		5311/014 R-8
Inspect pipe labeling and lagging		NSTM 505/635
Test - Demonstrate water production capability during the 4 Hour Water Production Demonstration		NAVSEA/OEM TECHMAN

5315		TER PRODUCTION ATION – REVERSE OSMOSIS
Component/Sub-Compon	Component/Sub-Component	
Note: Pre-U/W - AX to verify distille	ers are	Note: Pre-U/W - EL will
operational, calibration & safety relief		inspect salinity panel & dump
within periodicity. Detailed material i		valves.
normally conducted during u/w water	production.	
Inspect Tech Manual Support		NAVSEA/OEM TECHMAN
Inspect PMS Support		5315/008
Inspect relief valves are within period	icity	5315/008 36M-1
Inspect HP pump oil level		5315/008 R-2D
Inspect flexible hose condition and tes	st tag	NSTM 505
Inspect Accumulator Pressure	-	5315/008 R-3
Test the operation of the product and brine		5315/008 U-1
flowmeters		
Test - Demonstrate water production capability		NAVSEA/OEM TECHMAN
during the 4 Hour Water Production Demonstration		
- Inspect RO to ensure the unit has not been set to		5315/008 U-1
produce above maximum recommende	ed capacity	
(discharge pressure setting, production	n and sea water	
injection temperature diagram curve and tables)		
- Inspect the operating panel for alarm / unusual		NAVSEA/OEM TECHMAN
conditions.		
- Inspect 3 and 20 micron filter differential pressure		5315/008 R-1
- Inspect all fittings and connections for leaks		NSTM 505
- Inspect demineralizer operation		5315/008 U-1
Inspect freshwater flush		5315/008 M-2R

ELECTRICAL (EL) PRE-UNDERWAY PHASE LHA 1

El-005/029	SHIPS SERVICE TURBINE GENERATORS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test reverse power relays		A-11R
Test parallel op	eration	IAW EOP
Test Automatic	Load shedding	A-10R
El-005/029	EMERG	GENCY GENERATOR
COMPO	ONENT/SYSTEM	PROPOSED PROCEDURE
Test reverse por	wer relays	A-11R
Test Parallel Op	peration	IAW EOP
Test Auto start	& verify loading.	R-2
Test Automatic	Load shedding	A-10R
3143	400 HERTZ DISTRIBUTION SYSTEM	
	(STATIC FREQUENCY CONVERTERS))	
COMPO	ONENT/SYSTEM	PROPOSED PROCEDURE
Test Frequency changer 60 Hz Input Circuit Breakers Shunt Trips.		A-6
Test split and p	arallel operation	IAW EOP
El-031	TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANE	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test Navigational lighting panel.		R-3
Measure insulation resistance of Navigational Lighting Panel.		Q-3

Measure insulation resistance of Signal Light Panel.		Q-3
4331	ANNOUNCING SYSTEMS	
COMPON	NENT/SYSTEM	PROPOSED PROCEDURE
Test general, chemical, and collision alarms from all stations		Q-1R/R-1
Test 1MC from al	1 stations	Q-1R/R-1
Test 5 MC operati	ion	Q-2R
Test 21MC operat	tion	Conduct Operational Test.
Measure Speaker	Insulation Resistance	A-1
4751	1 DEGAUSSING SYSTEM	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Conduct linearity test		Q-1
Conduct ground test.		M-2
Inspect degaussing folder		NAVSEA TECH MANUAL
El-010	-010 AUTOMATIC BUS TRANSFER EQUIPMENT	
COMPON	NENT/SYSTEM	PROPOSED PROCEDURE
Test all engineeri	ng ABTs	S-3R/R-1
Test all remaining ABT's. (Day 2)		S-3R/R-1
4371	EVAPORATORS	
COMPON	NENT/SYSTEM	PROPOSED PROCEDURE
Test dump valve of	operation	S-2
Test alarm settings		S-2

4373	WIND INDICATING SYSTEM	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test System For Proper Operation		R-1M
5081	THERMAL IMAGING SURVEY	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Commence Thermal Imaging Throughout The Ship NOTE: Any equipment surveyed that has a temperature rise of 40 degrees centigrade or above (3 or 4 star) must be repaired or tagged out prior to getting underway. The items will not be available until repairs are completed and re-shot for verification		R-1 / R-2

ELECTRICAL (EL) UNDERWAY PHASE

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

(INSPECT) FUSE BOXES

· · · · · · · · · · · · · · · · · · ·	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage	GSO 303F
installed?	NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

(INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTERNS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POV	WER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its	IAW PMS
associated breakers when tested?	IAW EOSS
	GSO 320D
Was shore power system cabling between the	SPRU
receptacles and the ship's switchboard insulation	NSTM 300/320
resistance within EOSS or PMS Limits	
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current	GSO 320D
standards:	
 Have a Viking Connector System 	
 Have AQB-LF400 Amp Circuit Breaker 	
with shunt trip	
- Have a phase sequencing and phase	
orientation devices.	
- Have installed ammeter and selector switch	
to monitor total shore power current.	

(INSPECT) CATHODIC PROTEC	TION SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the installed Cathodic Protection System operative and adjusted	GSO 633C
Were the rudder grounding straps made of 1-1/2 inch	NSTM 633 – 3.3.2.7
wide braided copper and brazed to the rudder stock and the hull?	GSO 633C
Has the system been turned off greater than 15 days?	GSO 633G
Was brush rigging correctly installed?	NSTM 633- 3.3.2.6
Were shaft grounding brushes correctly installed?	NSTM 633
	ICCP Tech Manual
Did shaft grounding brushes exhibit full contact with	NSTM 633 – 3.3.2.6
the slip ring?	ICCP TECH MANUAL
(INSPECT / TEST) ALARM S	SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test alarm switchboards and panels.	4351/Q-2
Were any alarm and warning systems inoperative or missing parts?	GSO 433J
(INSPECT) ORDER/INDICATING/ME	TERING SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B
	IAW PMS
MOTOR CONTROLLE	ERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained	NSTM 302-3.3.2
gear adrift?	GSO 320F
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F	
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1	
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1	
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G	
Were switches protected against inadvertent activation?	GSO 070H	
Were controllers with multiple power sources properly labeled?	GSO 305C	
Were motor foundations properly preserved?	GSO 631J	
Were controllers and remote operating stations properly labeled?	GSO 305C	
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D	
WORKBENCHES		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650	
(INSPECT) ELECTRICAL SAFETY		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G	

Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
(INSPECT) ELECTRICAL SAFETY (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1- 3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
(INSPECT) CABLIN	G
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon wire ties being utilized?	

(INSPECT) CABLING (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8 DOD-STD-2003-1
Were cables protected against being handholds or being stepped on?	GSO 304E
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11
Were cable stuffing tubes properly assembled?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11 GSO 304E
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310
(INSPECT) BUS TRANSFER E	QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
 Were ABT's installed for the following: Emergency Lighting. IC Switchboard and panels. Steering power panel. Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control. Fire pumps. Fire extinguishing auxiliaries and controls. 	NSTM 320-1.3.2 GSO 320D
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from being closed at the same time?	NSTM 300-4.8.4.2

Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHON	E SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTOR	S
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment groundedto the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	<u> </u>
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CA	BLES
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1 DOD-STD-2003
Were cables deteriorated from age, heat, and humidity?	NSTM 079-47.4.2.2.10
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2

Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F	
CASUALTY POWER CABLE	S (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003	
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2	
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6	
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G	
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3	
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G	
ELECTRICAL DISTRIBUTION EQUIPMENT		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or	NSTM 300-4.3.3 GSO 300D NSTM 300-4.3.3	
missing covers?		
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3	
Was electrical equipment protected from water	NSTM 300-4.4.1	
intrusion?	NSTM 300-4.4.5	
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3	
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1	
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug could not be removed from an energized receptacle?	NSTM 320-1.4.1	
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6	
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320	

outlets labeled to prevent equipment being used with the wrong frequency?	
SOUND POWERED TELEPHON	NE SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2
(INSPECT) LIGHTIN	NG .
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were darken ship switches operative and adjusted properly? Ship provide list of darken ship switches for survey.	DOD-HDBK-289 NSTM 330-3.6.5
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, of faceplates?	or NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
(INSPECT) BATTERY LO	CKERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was a Battery Log maintained?	NSTM 313-2 GSO 313F
Is there an electrical interlock between exhaust ventilation and battery charger?	5100.19C C0904 NSTM 313
Test ventilation interlocks	3131/S-2
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	GSOF
 Is each locker provided with: Rubber Gloves and Aprons. Goggles. Two battery fillers. Two battery test sets. 	5100.19 GSO 313F NSTM 313
- One soda water container.	

Does the locker contain an eye wash station and a	NSTM 313-2
deluge shower?	

(INSPECT) BATTERY LOCKERS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are battery storage racks greater than 12 inches between tiers?	GSO 313F
Were battery hold-down clamps provided?	GSO 313F
Are Acids stored in appropriate protective containers?	GSO 313F
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F
(INSPECT) MISCELLANEOUS E	QUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1
Is hardwired electrical equipment permanently mounted?	NSTM 330-1
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5
Were Surge Protectors of the approved type?	3000 / A-4R
Are portable electric device power cords properly tinned?	3000 / Q-1R
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.
Are non-watertight connection boxes being used in engineering spaces?	GSO 300D
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2	
Were dress ship light receptacles labeled "Dress Ship		
Light Streamers. Not to be used for any other purpose"?		
	NSTM 330-1-	
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?		
	NSTM 330-1	
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?		
	IAW PMS	
Was UPS electronic cabinet bottom sealed to prevent	GS0 300D/324D	
water of oil entry from lower level engine room?	NSTM 300-4	

ELECTRICAL (EL) POST-UNDERWAY

LHA 1

OPEN AND INSPECT AS REQUIRED BY THE INSPECTION	
PROPOSED PROCEDURE	
3	

MAIN PROPULSION PRE-UNDERWAY PHASE LHA 1

2210	PROPULSION BOILERS	
Component/Sub-Component		Proposed Procedure
IDLE BOILER:		
Test F/O safety shu	utoff/root valves	2210/006 (R-5, R-6)
Test F/O Quick Clo	osing Valves	F001/195 18M-1R; R23
Inspect burner lead	bends and flange shields	NSTM 505-7.9.4
Test final control e	lement air locks	2212/108 (A-3R)
Test F/O service ta	nk bulkhead stop valves	5000/005 (S-2)
Test F/O service ta	nk Quick Closing valves	5000/005 (S-2)
Test steam smother	ring system	EOP R150
Test safety valve h	and easing gear	2210/006 (24M-2)
Test remotely close	e main steam stop valve	2531/004 (S-1)
Test remotely close	e auxiliary steam stop valve	5340/006 (S-1)
ALL BOILERS:		
Test boiler water h	igh/low level alarms	2210/006 (Q-1R, Q-3R)
Test gauge glass ha	and easing gear	EOP BGG
Test gauge glass no	ormal/emergency lighting	NSTM 221-3.4.2
Inspect bottom blow system material		S9221-D2-MMA-010, 8-3.1.3.B
Inspect bottom blow valves for leak by		NSTM 221-4-17.3
Inspect for slding f	eet movement	2210/006 (M-1)
Test Control Air A	larm	2212/161 (A-3R)
Test Air Lock Alar	m	2212/161 (A-3R)

ALL BOILERS: (cont.)	Proposed Procedure
Inspect gauges/instruments	CRL
Inspect Stack Gas Analyzer	4361/001 (A-5)
Inspect Periscope	NSTM 221-3.5
Inspect smoke pipe expansion joint	NSTM 221-2.1.3
Inspect Boiler Casing and Insulation	2210/001 (R-1)
Inspect Sample Coolers	NSTM 220
Inspect drain valve piping	NSTM 505
Test ABC system 28 VDC UPS	2212/161 (Q-4R)
Inspect Elec ABC system laptop computer	TECH MANUAL
Verify burner barrels are serialized and hydro'd	NSTM 221 2210/006 A-8

F013	MAIN FEED PUMPS	
Component/Sub-Component		Proposed Procedure
Test low suction tr	ip/alarm	F013/101(Q-4)
Test speed limiting	governor	F013/101(Q-2)
Test overspeed trip)	F013/101 (Q-8)
Test/Sample lube of	pil	2000/001 (R-1)
Test combination e	exhaust/relief valve	2550 (S-8)
Test electric lube o	oil pump auto start	EOP FOPS
Inspect pump pack	ing gland/mechanical seal	NSTM 503-5.3.8
Inspect flange shie	lds	NSTM 505-7.9.4
Inspect relief valve	es	NSTM 505-9.17.5
Inspect gauges/inst	truments	CRL
Test low suction p	ressure safety trip emerg trip	F013/101 (Q-7)
Test low lube oil to	rip	F013/101 (S-4)

F14	F14 MAIN BOOSTER PUMPS	
Compo	nent/Sub-Component	Proposed Procedure
Inspect gauges		CRL
Inspect MFBP		NSTM 503-5.3.8
- packing gland/m	nechanical seal	F14/045 A-5

F002	FORCED DRAFT BLOWERS	
Component/Sub-Component		Proposed Procedure
Test low lube oil tr	ip.	F 002/105 Q-3
Test speed limiting	governor	F002/105 Q-1
Test shutter operat	ion	F 002/105 PM-2
Test elect lube oil	pump auto start/stop	F 002/105 Q-2
Inspect/Sample lub	oe oil	2000/001 (R-1)
Inspect gauges/inst	truments	CRL
Inspect flange shields		NSTM 505-7.9.4
Test combination e	exhaust relief valve	5000/001 (72 M-1R)
Test low oil pressu	are trip	F002/105 (Q-5)

F004	F004 FUEL OIL SERVICE PUMPS	
Compo	nent/Sub-Component	Proposed Procedure
Test remote shut de	own (cold plant)	EOP FOS
Test fuel oil service	e constant pressure control vlv	F004/086 A-7
Inspect electric fue	el oil service pump	NSTM 503-5.3.8
- packing gland/me	echanical seal	
Inspect instrument	s, gauges and thermometers	JFMM V4/CRL
Test revolving stra	iner	EOP FOSS
Inspect discharge i	relief valve	NSTM 505
Inspect Fuel Oil A	ccumulator and N2 charge	5411/R01 A-2

F27	F27 DEAERATING FEED TANK	
Compo	nent/Sub-Component	Proposed Procedure
Test DFT gauge gl	ass hand easing gear	LOCAL EOP
Test D.O.		NSTM 220
Inspect DFT		
- relief valve		
- vacuum breaker		
- gauge glass		NSTM 505; S-3R
Inspect gauges/inst	truments	CRL

F 007	07 EMERGENCY FEED PUMP	
Component/Sub-Component		Proposed Procedure
Demonstrate operation and feed boiler successfully for 10 minutes/optest by air		EOP EFP; F007/028 M-1
Inspect for water/s	team leakage	EOP EFP
Inspect pump disch	narge relief valve	NSTM 505
Inspect gauges/inst	ruments	CRL
2211	BOILER INSPECTION DEVI	ICE
Component/Sub-Component		Proposed Procedure
Test boiler inspecti	on device	2211/002 (M-2R, 3R)
ADMIN/DOCUMENTATION		
Component/Sub-Component		Proposed Procedure
BW/FW records (last 3 months)		NSTM 220/221
Bottom blow UT records		NSTM 220/221
Soot blow ppg UT records		NSTM 220/221
Soot blow head UT records		NSTM 220/221
Burner barrel hydrotest records		2210/006 (S-5R)

2320/2562	MAIN ENGINES	
Component/Sub-Component		Proposed Procedure
Test Main Conden	ser SW Inlet Valve	MIP 5000/005 (A-3)
Test Main Conden	ser SW Outlet Valve	MIP 5000/005 (A-3)
Test Scoop Injection	on SW Inlet Valve	MIP 5000/005 (A-3)
Test Main Circ Pur	mp Emerg Bilge Suction Valve	MIP 2562/R01 (S-1;2)
Test Main Engine	Guarding Valve	EOP MEGV
Test Throttle Valves		EOP MEGV
Inspect Turbine Gl	and Seal Regulating Valve	NSTM 505
Inspect Turbine Gl	and Seal Dump Valve	NSTM 505
Inspect Turbine Cr	ossover Piping Sentinel Valves	NSTM 505
Inspect Air Ejectors		EOP MEAJ
Inspect Drain syste	ems	NSTM 505
Inspect Deminerali	zer Operation	EOP MCD
Verify proper alignment of hotel drain system		EOP FW

E 700 REDUCTION GEARS	
Component/Sub-Component	Proposed Procedure
Test Shaft Turning Gear	E700/021 R15
Inspect Lube Oil Condition/sump level	2000/001 (R-1)
Inspect MRG Interior	E-700/017 (R-22; 24M-3)
- Gear Teeth contact/condition	NSTM 244
- Lube Oil Spray Pattern	
- Casing Interior	
- Attached LO Pump Angle Drive Gear	
Inspect Oil Flow in SFI's NSTM 244-33.3.6	
Instruments, gauges and thermometers	CRL
Inspect Casing Exterior	NSTM 241
Inspect Vent Fog Precipitator	EOP RGVS
Inspect Dehumidifier	EOP RGVS
Inspect Security Devices	NSTM 241-4.2.3
Inspect Flange Shielding	NSTM 505
Inspect Piping Systems	NSTM 505

E012	LINE SHAFT BEARINGS	
Component/Sub-Component		Proposed Procedure
Inspect/Sample lube oil		MIP 2000/001 (R-1)
Inspect Sump Drain Valve		NSTM 244-2.4.3
Inspect Seals		NSTM 244-2.4.3
Inspect Thermometers		EDORM
Inspect Lubricator		EDORM
Inspect Dip Stick		EDORM
Inspect Lock Wires		EDORM

E 012	STERN TUBE SEALS	
Compo	nent/Sub-Component	Proposed Procedure
Test Cooling Water Low Flow Alarm		EOP STCW
Test Inflatable Seal		E012/ (S-2,5,6)
Inspect Gauges		CRL
Inspect Cooling Water Piping		NSTM 505
Inspect/shift Cooling Water Strainer/Filter		E012 Q-3R
Inspect underway seal leakage rate		NSTM 244
Inspect LP Air Supply		NSTM 505
Inspect LP Piping/Hoses/Fittings		NSTM 505
Inspect CO2/N2 Piping/Fitting		E012 24M-1
Inspect Emergency Flax Packing Kit		S9243-BG-MMA-01/0SYN4

1130	HULL STRUCTURE	
Component/Sub-Component		Proposed Procedure
Inspect Bilges/Angle Irons		NSTM 090
Inspect Deck Plates		NSTM 090
Inspect Equipment Foundations and resilient mounts		NSTM 090
Inspect Paint and Preservation		NSTM 631(V2) (V3)
Inspect Pipe Brackets/Hangers		A-700/ 038 (18M-1R)
Inspect Lighting		NSTM 300

2620	LUBE OIL SYSTEMS	
Component/Sub-Component		Proposed Procedure
Test Main Engine Lube Oil Sequencing		2620/R17 (Q-1,2)
Test Main Engine Low Lube Oil Alarm		2620/R17 (Q-1,2)
Inspect Electric Lube Oil Pump - Mechanical Seals		NSTM 505
- Valves, piping	g and Unloading Valve	NSTM 503; R-4
Inspect attached Main Engine Lube Oil Pump - Mechanical Seals		2620/801 (R-5)
Inspect Lube Oil S	trainer Baskets and Enclosure	2621/R15 24M-1R
Inspect system flange shields		NSTM 505
Inspect lube oil pump relief valves/test data tag		2620/001 (60M-1)
Inspect gauges and instruments		CRL
Inspect Temp Regulating Valve		NSTM 505
Demonstrate Lube Oil Purifier Operation		EOP LOPO
Inspect Lube Oil Purifier Heater relief valve/test data tag		NSTN 505
Inspect Lube oil heater		NSTM 505
Demonstrate L/O purifier emergency stop		EOP LOPO
Demonstrate Lube Oil Purifier Efficiency		EOP LOPO; NSTM 262

CONTROLS	CONTROLS	
Component/Sub-Component	Proposed Procedure	
Test EOT Indicator	EOP EOT	
Test RPM Indicator	EOP EOT	
Test Console Alarms and Indicators	EOP EOT	
Test Wrong Direction Alarm	EOP EOT	

E013	GENERATORS	
Component/Sub-Component		Proposed Procedure
Inspect Lube Oil Condition/ Sump Level		2000/001 (R-1,2)
Inspect Lube Oil SFIs		NSTM 241-2.3.8; 244-3.3.6
Inspect Vent Fog Precipitator		NSTM 241-3.2.6
Inspect/Shift Lube	Oil Strainer	E013/189 R-10
Airbox Telltale Drains		NSTM 310
Test Alarm Panel		EOP TG
Inspect Gland Seal Operation		EOP TG
Inspect Aux Circ Pump - Packing gland/mechanical seal		EOP TG
Inspect Aux Cond Pump - Packing gland/mechanical seal		EOP TG
Inspect Aux Air E	jectors	EOP TG
Test Lube Oil Pump Autostart		EOP TG
Test Low Lube Oil Alarm		E013/189 S-4
Inspect Turbine Casing Relief Valve		E013/189 S-2
Test Overspeed Trip		E013/189 Q-1
Test Manual Trip		E013/189 Q-1
Test Back Pressure Trip		E013/189 A-10
Test Auxiliary Condenser SW Inlet Valve		E004/170 Q-2
Test Auxiliary Condenser SW Outlet Valve		E004/170 Q-2
Inspect centrafilter		EOP TG E013/189 18M-3
Inspect flange shields		NSTM 505
Inspect duplex oil filter(GOV)		EOP TG
Inspect Aux Condenser sight glass		EOP TG

MAIN PROPULSION UNDERWAY PHASE LHA 1

	TEAM ARRIVAL	
Component/Sub-Component		Proposed Procedure
Check applicable equipment for correction of deficiencies.		
Tour space, ensure ready for sea.		
	MISCELLANEOUS	
Inspect Oil Lab, sa	impling equipment	NSTM 220
Complete Open an to the Engineer Of	d Inspect List and give a copy ficer.	
	CHELANT TREATMENT SYS	STEM
Inspect Spill Locke	er and inventory	NSTM 220
Inspect hydrazine locker		NSTM 220
Inspect injection cabinet		NSTM 220
Inspect chelant treatment tank and associated equipment		NSTM 220
	DEMONSTRATIONS	
Demonstrate Full I	Power ahead (1 hour)	PMS/EOSS/POG/9094.1B
Demonstrate Quick Reversal Astern		POG/Full Power Memo/EOSS
Demonstrate Quick Reversal Ahead		POG/Full Power Memo/EOSS
Demonstrate soot blower operation as soon as possible after underway. Note: Demonstrate soot blower head pressure PMS on one rotating and one stationary head per boiler while blowing tubes.		EOP SOBO
Demonstrate boiler flex test (all boilers will be flexed prior to Full power.)		2212/161 (S-4R)
Demonstrate fuel oil purifier (s) operation		EOP FOP
Demonstrate purifier (s)emergency stop capability		EOP FOP